



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05465

SHEET 1 OF 1

DWG NO. 647.7300

REV: B

PREPARED BY J. BECKER

DATE: 07/07/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: EC135 CABLE CUTTES KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: ADDED NOTE 10.

ECR: N/A

ACTION ITEM:
1.

SHEET 1, NOTE 10 IS:

NOTES: UNLESS OTHERWISE SPECIFIED

1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.

2 APPLY F/N 91 TO FAYING SURFACES.

3 DELETED.

4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.

5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.

6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.

7 647.7301 INSTALLATION FOR EC135.

8 647.7304 INSTALLATION FOR EC135 T2/P2.

9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

10 CUT LENGTH: 16 INCHES.

IS

36	R	601.3011	1	1	1	1	1	1
F/N	TC	PART NUMBER	7306	7305	7304	7303	7302	7301
			QTY					

P-SEAL

DESCRIPTION

MATERIAL

SPECIFICATION

10

DOCUMENTS EFFECTED:

☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES ☒ NO

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NOTES: UNLESS OTHERWISE SPECIFIED

1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.

2 APPLY F/N 91 TO FAYING SURFACES.

3 DELETED.

4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.

5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.

6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.

7 647.7301 INSTALLATION FOR EC135.

8 647.7304 INSTALLATION FOR EC135 T2/P2.

9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

UNINCORPORATED ECN(S)

054165

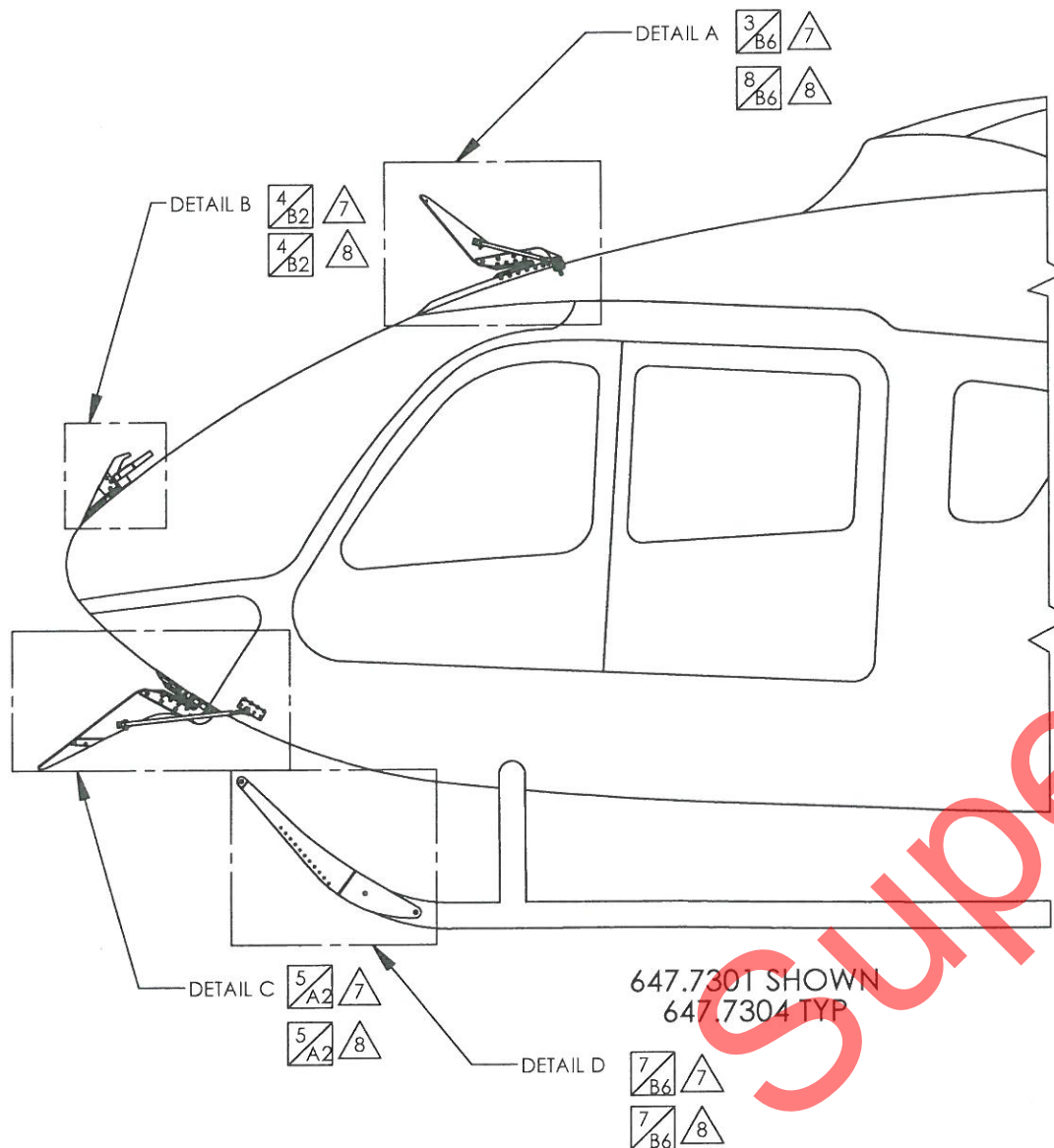
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	1	1		1	1	94	647.7919	SHIM		
	1	1		1	1	93	600.0990	MAGNOBOND 6398 PART A		
	1	1		1	1	92	600.0991	MAGNOBOND 6398 PART B		
1		1	1		1	91	601.2045	RTV	LOCTITE 598	
1	1	1		1	1	90	600.1012	SEALANT	PR-1425 CLASS B	
	3	3		3	3	89	601.2375	WASHER		
2	3	4	2	3	4	88	601.3126	WASHER	NAS1149F0532P	
12		12	8		8	87	601.3663	WASHER	NAS1149C0432R	
8	77	85	12	74	86	86	601.1607	WASHER	NAS1149F0332P	
23	2	25	12	2	14	85	601.2764	WASHER	NAS1149FN832P	
	2	2		2	2	84	601.3136	CHERRY RIVET	CR3212-5-6	
	8	8		8	8	83	601.3215	CHERRY RIVET	CR3522-5-3	
	8	8		8	8	82	601.3216	CHERRY RIVET	CR3522-4-3	
	12	12		12	12	81	601.2481	CHERRY RIVET	CR3213-5-4	
	16	16		16	16	80	601.2020	CHERRY RIVET	CR3213-5-3	
	17	17		17	17	79	601.2991	CHERRY RIVET	CR3213-4-6	
	8	8		8	8	78	601.1183	CHERRY RIVET	CR3213-4-5	
	16	16		16	16	77	601.1915	CHERRY RIVET	CR3213-4-4	
	24	24		24	24	76	601.0790	CHERRY RIVET	CR3213-4-3	
	4	4		4	4	75	601.1604	CHERRY RIVET	CR3213-4-2	
	4	4		4	4	74	601.1983	NUTPLATE RIVET	CCR2745S-3-03	
	24	24		24	24	73	601.2207	NUTPLATE RIVET	CCR2645S-3-03	
	3	3		3	3	72	601.2999	SCREW		
	5	5		6	6	71	601.2829	SCREW	MS24694554	
	2	2		2	2	70	601.1954	SCREW	MS27039-1-17	
	4	4		4	4	69	601.2637	SCREW	MS27039-1-16	
	1	1		1	1	68	601.3012	SCREW	MS27039-1-15	
	4	4		4	4	67	601.1622	SCREW	MS27039-1-14	
	2	2		2	2	66	601.1953	SCREW	MS27039-1-12	
	6	6		6	6	65	601.1365	SCREW	MS27039-1-10	
	12	12		12	12	64	601.3069	SCREW	MS27039-1-09	
	3	3		3	3	63	601.2198	SCREW	MS27039-1-07	
			2		2	62	601.3137	SCREW	MS27039-0816	
4		4	4		4	61	601.2988	SCREW	MS27039-0813	
	1	1		1	1	60	601.2525	SCREW	MS27039-0807	
	4	4		4	4	59	601.3127	LOCKNUT	MS21042L5	
	2	2		2	2	58	647.8512	INSERT		
	4	4		4	4	57	647.8511	INSERT		
	20	20		18	18	56	647.8510	INSERT		
4		4	4		4	55	601.3128	NUT	AN316C4R	
4		4	8		8	54	601.3209	LOCKNUT	MS21042L4	
4	31	35	4	30	34	53	601.2943	LOCKNUT	MS21042-3	
4	1	5	6	1	7	52	601.2973	LOCKNUT	MS21042-08	
			4		4	51	601.3002	BOLT	NAS6604-66	
			4		4	50	601.3130	BOLT	NAS6603-16	
			4		4	49	601.1500	BOLT	NAS6603-12	
4		4	4		4	48	601.2669	BOLT	AN4C7A	
	1	1		1	1	47	601.1324	BOLT	AN4CH6A	
4		4	4		4	46	601.2826	BOLT	AN3-11A	
	2	2		2	2	45	601.2823	BOLT	AN3-4A	
	12	12		12	12	44	600.0795	NUTPLATE	MS21047-3	
	2	2		2	2	43	601.3004	CAMLOC STUD		
	2	2		2	2	42	601.3005	CAMLOC RETAINER		
	2	2		2	2	41	601.3006	CAMLOC RECEPTACLE		
4		4	4		4	40	601.3119	CLEVIS	AN665-34R	
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR4		N/C
N/C	INITIAL RELEASE	01/13/09	P. BRAVO
A	INCORPORATED ECNS 02938, 03000, 03044, 03066	02/16/11	P. BRAVO
B	INCORPORATED ECN 05325	03/09/16	P. BRAVO

2		2	2		2	39	601.3120	EYE BOLT	AN44-12A	
			2		2	38	601.3121	EYE BOLT	AN44-5A	
1	1	1	1	1	1	37	601.3007	GROMMET	MS21266-2N	
1	1	1	1	1	1	36	601.3011	P-SEAL		
	1	1		1	1	35	647.3201	GROUNDING CABLE ASSY		
			2	2	4	34	647.2511	NUT		
				4	4	33	647.2510	SLEEVE		
	13	13		13	13	32	647.1812	SHIM		
	2	2		2	2	31	647.1811	SPACER		
	1	1		1	1	30	647.1602	DOUBLER ASSY		
	1	1		1	1	29	647.1914	BRACKET		
	1	1		1	1	28	647.7822	EYE BOLT FITTING RH		
				1	1	27	647.7821	EYE BOLT FITTING LH		
				1	1	26	647.7818	MOUNTING CHANNEL		
				1	1	25	647.7820	CROSS BRACKET AFT		
	1	1		1	1	24	647.7819	CROSS BRACKET FWD		
	1	1		1	1	23	647.7918	BRACKET		
	1	1		1	1	22	647.7917	BRACKET		
	2	2		2	2	21	647.7916	BRACKET		
	1	1		1	1	20	647.7915	BRACKET		
	1	1		1	1	19	647.7914	BRACKET		
	2	2		2	2	18	647.7913	DOUBLER		
	4	4		4	4	17	647.7912	CLIP		
	2	2		2	2	16	647.7911	BRACKET		
	2	2		2	2	15	647.7910	ANGLE BACKET		
4		4	4		4	14	647.0112	STRUT BRACKET		
	1	1		1	1	13	647.1810	NOSE DOOR DOUBLER		
	1	1		1	1	12	647.1818	NOSE DOOR SPACER		
2		2	2		2	11	647.7701	STRUT ASSY		
2		2	2		2	10	647.7702	STRUT ASSY		
	1	1		1	1	9	647.1815	GUSSET, RH		
	1	1		1	1	8	647.1814	GUSSET, LH		
	1	1		1	1	7	647.1915	SUPPORT ANGLE		
	1	1		1	1	6	647.1913	TEE		
	1	1		1	1	5	647.1610	WIPER DEFLECTOR, FWD		
	1	1		1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT		
			2		2	3	647.1701	SKID DEFLECTOR ASSY		
1		1	1		1	2	647.7501	LOWER CUTTER ASSY		
			1		1	1	647.7401	UPPER CUTTER ASSY		
X							647.7306	T2/P2 REMOVABLE PROVISIONS KIT		
	X						647.7305	T2/P2 FIXED PROVISIONS KIT		
		X					647.7304	EC135 T2/P2 CABLE CUTTERS KIT		
			X				647.7303	REMOVABLE PROVISIONS KIT		
				X			647.7302	FIXED PROVISIONS KIT		
					X		647.7301	EC135 CABLE CUTTERS KIT		
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

QTY		NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR)		11/24/09	
				DRAWN BY		CHECKER	
				A. QUAN		D. BARKER	
				DRAWING APPROVAL			
				P. BRAVO			
				01/13/10			
				CONTRACT NO.			

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



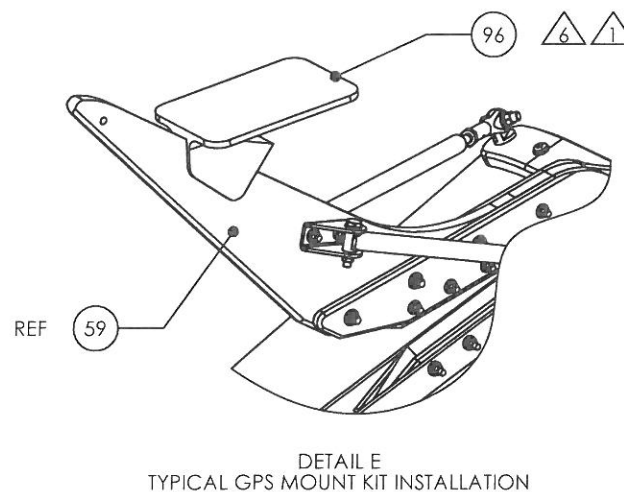
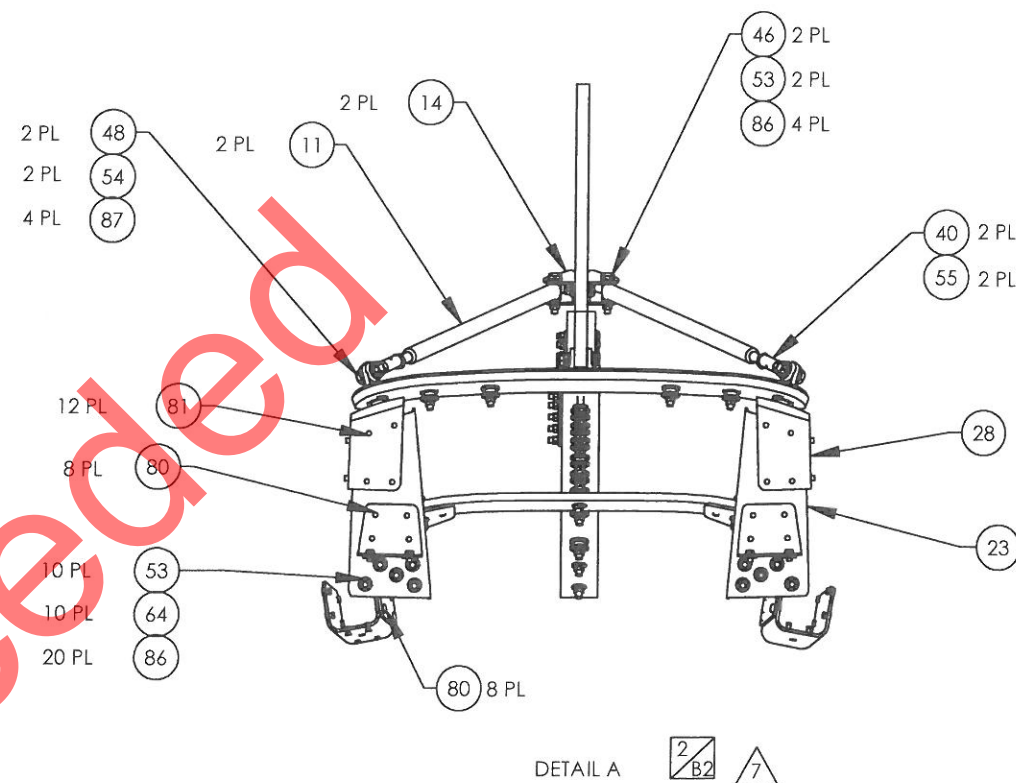
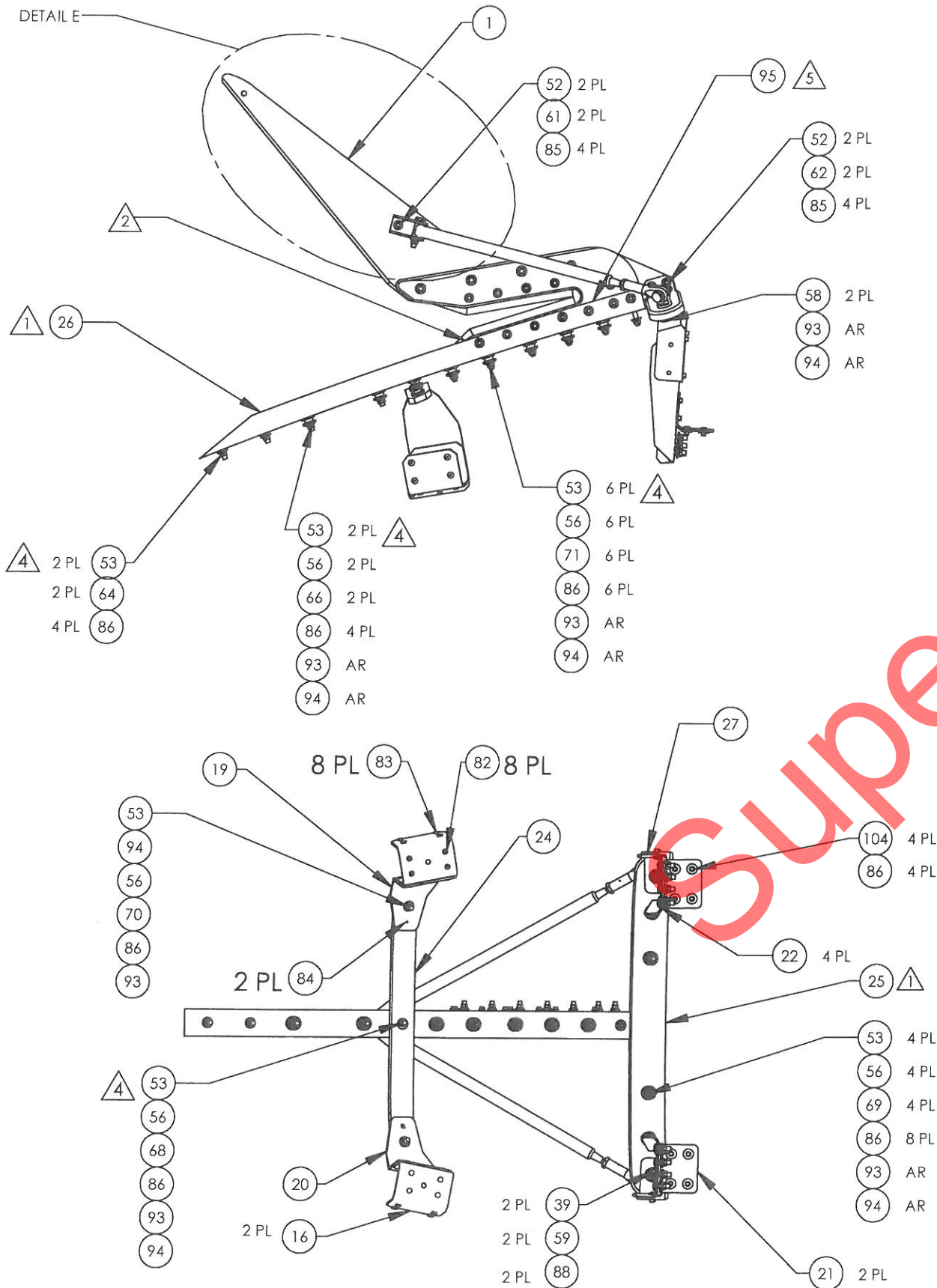
2		2				110	601.3902	EYE BOLT		
	2	2				109	601.2910	SCREW	MS27039-1-18	
4		4				108	601.3963	BOLT	93635A212	
8		8				107	601.3654	BOLT	LN9037-08018	
8		8				106	601.3655	LOCK WASHER	LN9025-0820K	
2		2				105	647.1702	SKID DEFLECTOR ASSY		
	8	8		8	8	104	601.3214	CHERRY RIVET	CR3523-5-3	
	24	24		24	24	103	601.3213	CHERRY RIVET	CR3523-4-4	
	4	4		4	4	102	601.3212	CHERRY RIVET	CR3523-4-3	
5		5				101	601.1541	LOCKNUT	MS21042L08	
5		5				100	601.3962	SCREW	MS27039-0827	
1		1				99	647.1404	CUTTER ASSY (UPPER)		
	1	1				98	647.2114	UPPER U CHANNEL		
	1	1				97	647.7823	CROSS BRACKET AFT		
1		1	1		1	96	647.5701	GPS MOUNT KIT		
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

ORIGINAL DATE
(MO-DA-YR) 11/24/09
DRAWN BY
A. QUAN
CHECKER
D. BARKER
DRAWING APPROVAL
P. BRAVO
01/13/10
CONTRACT No.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ± .5°

DART
AEROSPACE
APICAL INDUSTRIES, INC.
dba DART AEROSPACE
3030 ENTERPRISE CT.,
SUITE A
VISTA, CA. 92081
(760)-724-5300
EC135 CABLE CUTTERS KIT
SIZE B CAGE CODE 07MZ6 DWG. NO. 647.7300 REV. B
SCALE NONE SHEET 2 OF 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



ORIGINAL DATE 11/24/09
DRAWN BY A. QUAN
CHECKER D. BARKER
DRAWING APPROVAL P. BRAVO
01/13/10
CONTRACT No.

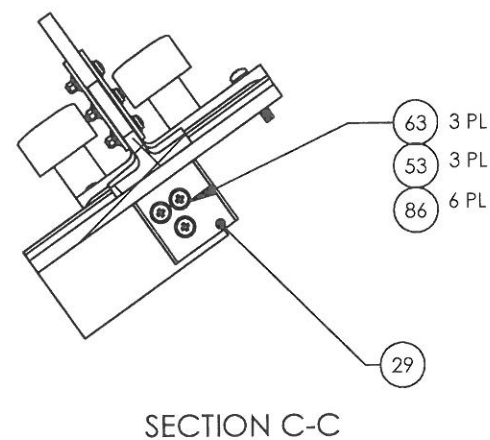
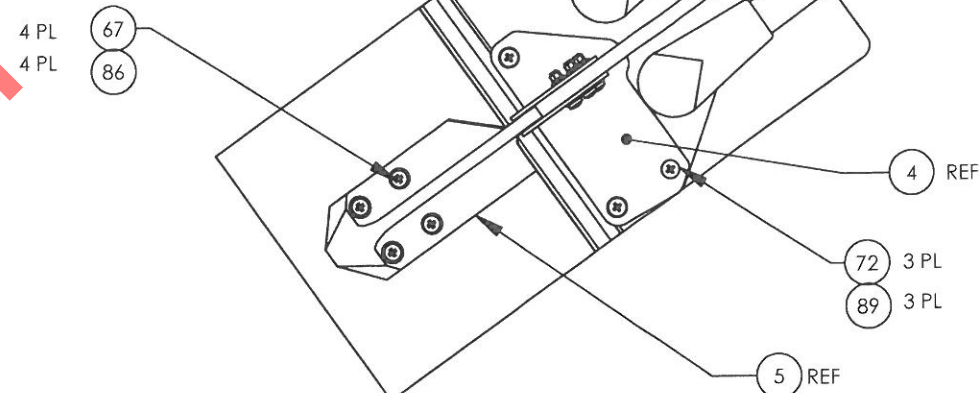
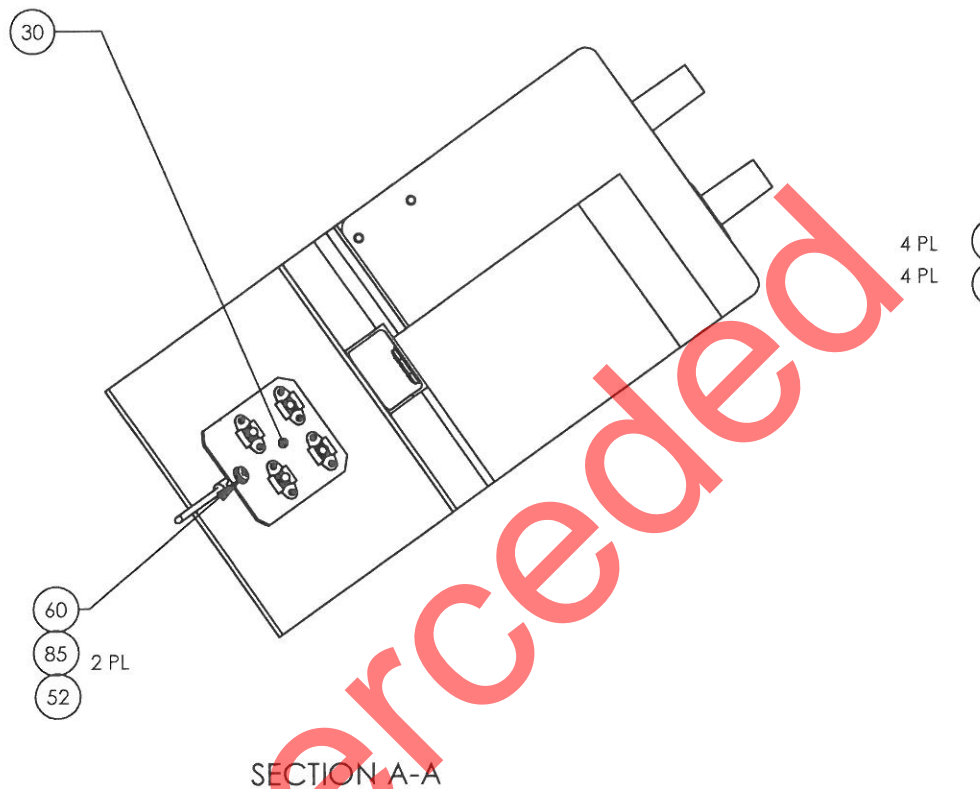
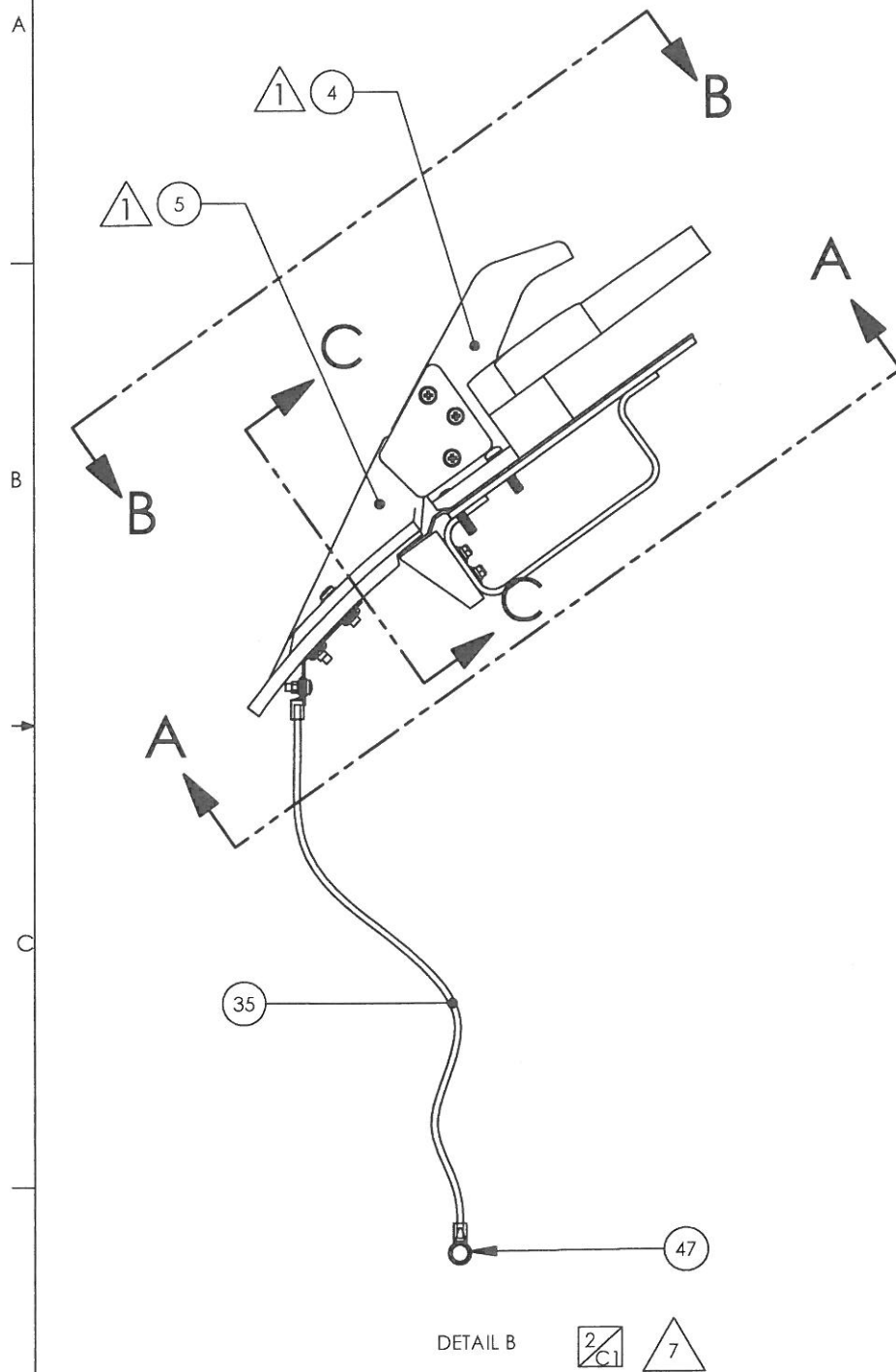
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°

DART 3030 ENTERPRISE CT., SUITE A
AEROSPACE VISTA, CA. 92081
APICAL INDUSTRIES, INC. (760)-724-5300
dbg DART AEROSPACE

EC135 CABLE CUTTERS KIT

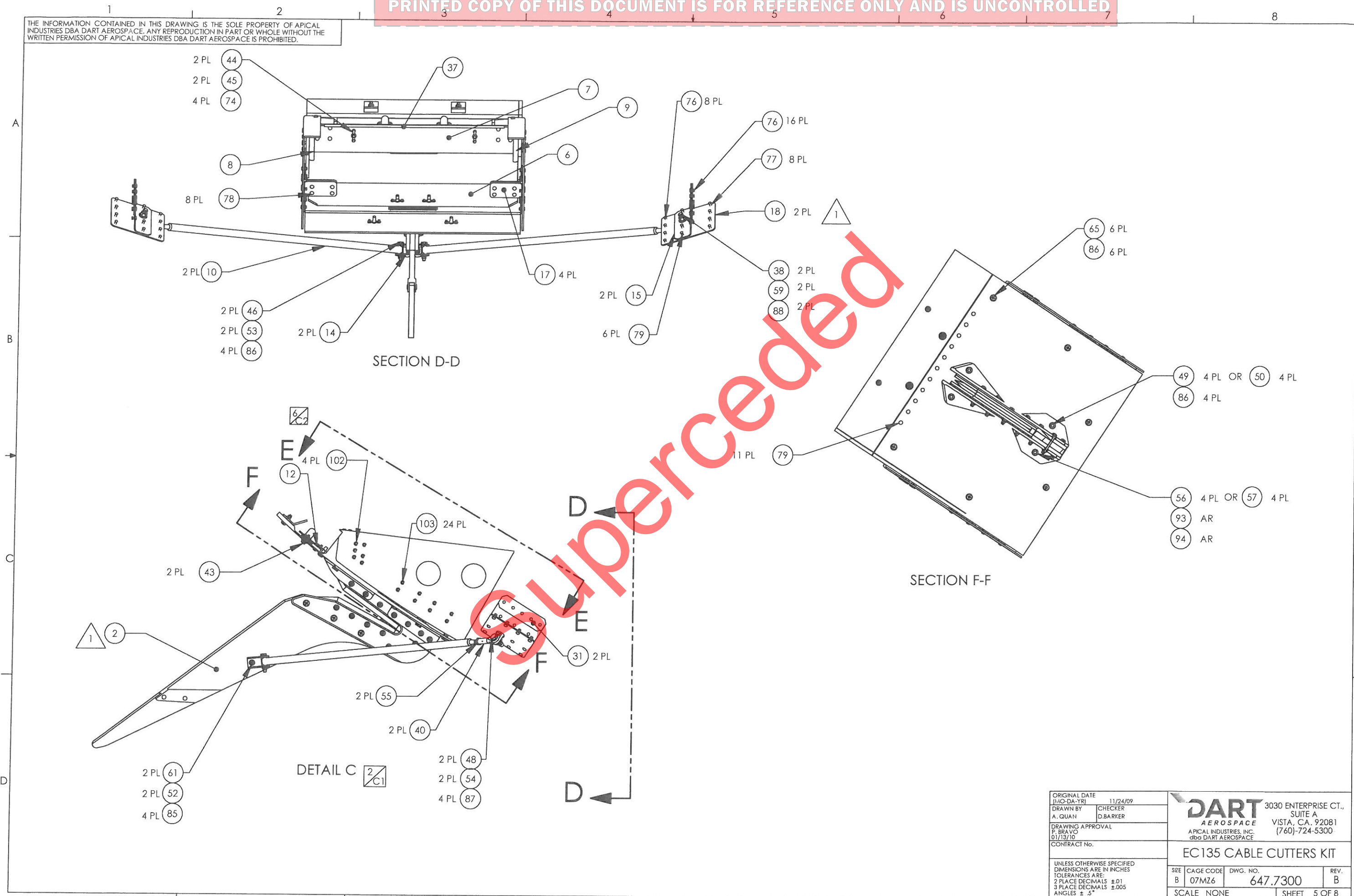
SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.7300	B
SCALE NONE			SHEET 3 OF 8

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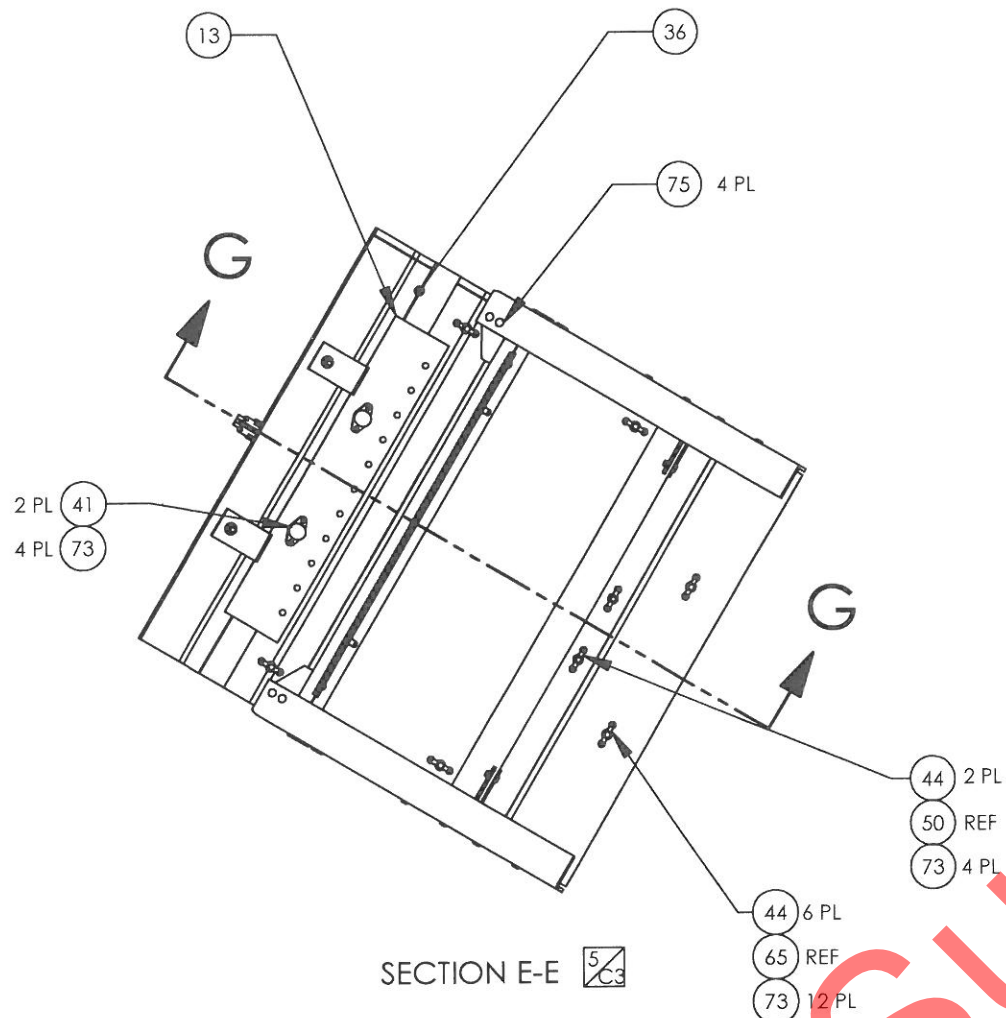
ORIGINAL DATE (MO-DA-YR) 11/24/09		DART 3030 ENTERPRISE CT., AEROSPACE SUITE A VISTA, CA. 92081 APICAL INDUSTRIES, INC. dba DART AEROSPACE (760)-724-5300	
DRAWN BY A. QUAN	CHECKER D. BARKER		
DRAWING APPROVAL P. BRAVO 01/13/10		EC135 CABLE CUTTERS KIT	
CONTRACT No.		SIZE B	REV. B
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 647.7300
		SCALE NONE	SHEET 4 OF 8

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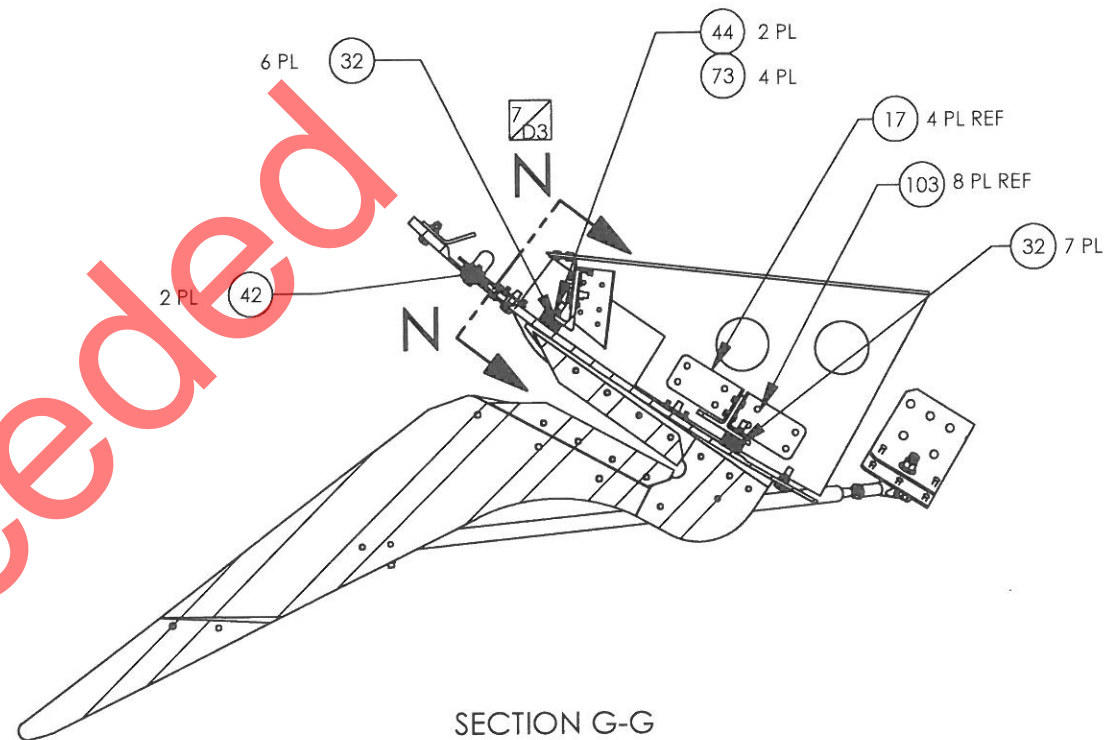


ORIGINAL DATE (MO-DA-YR) 11/24/09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. QUAN	CHECKER D. BARKER		
DRAWING APPROVAL P. BRAVO 01/13/10		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		EC135 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6
		DWG. NO. 647.7300	REV. B
		SCALE NONE	SHEET 5 OF 8

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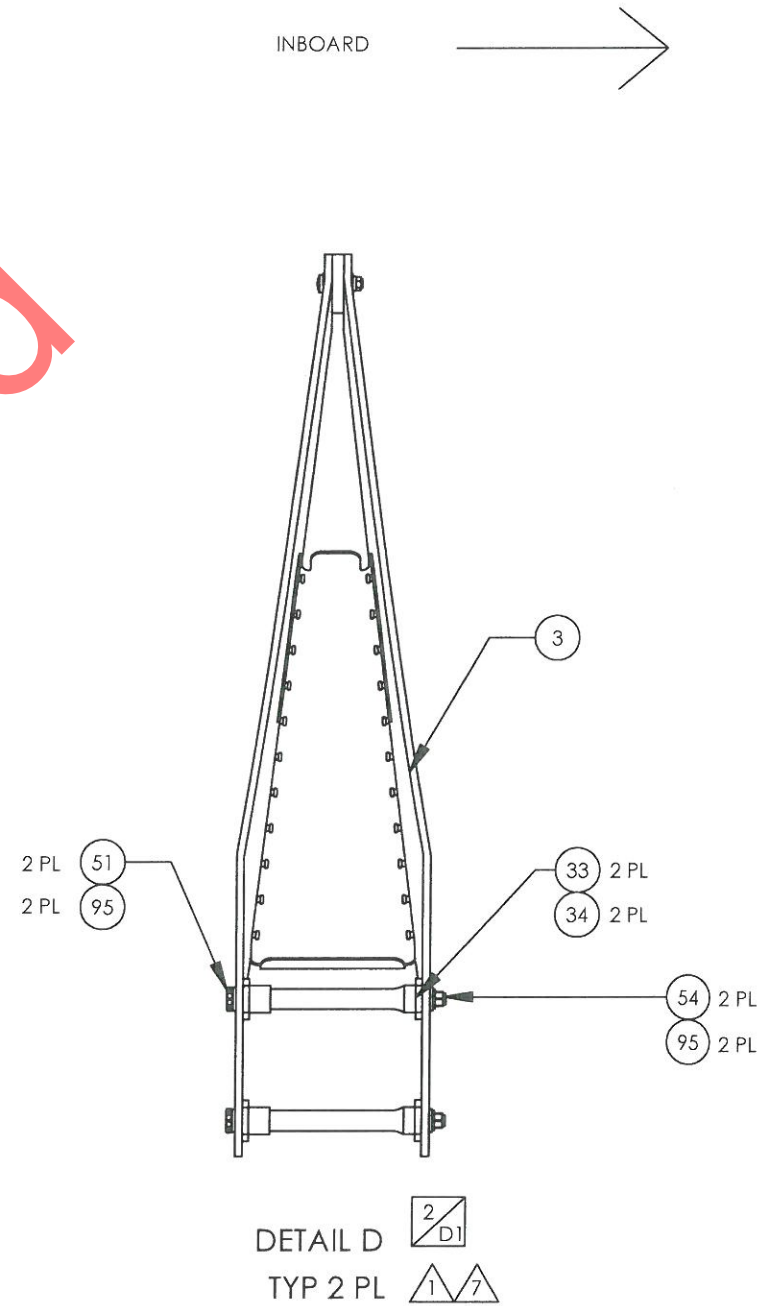
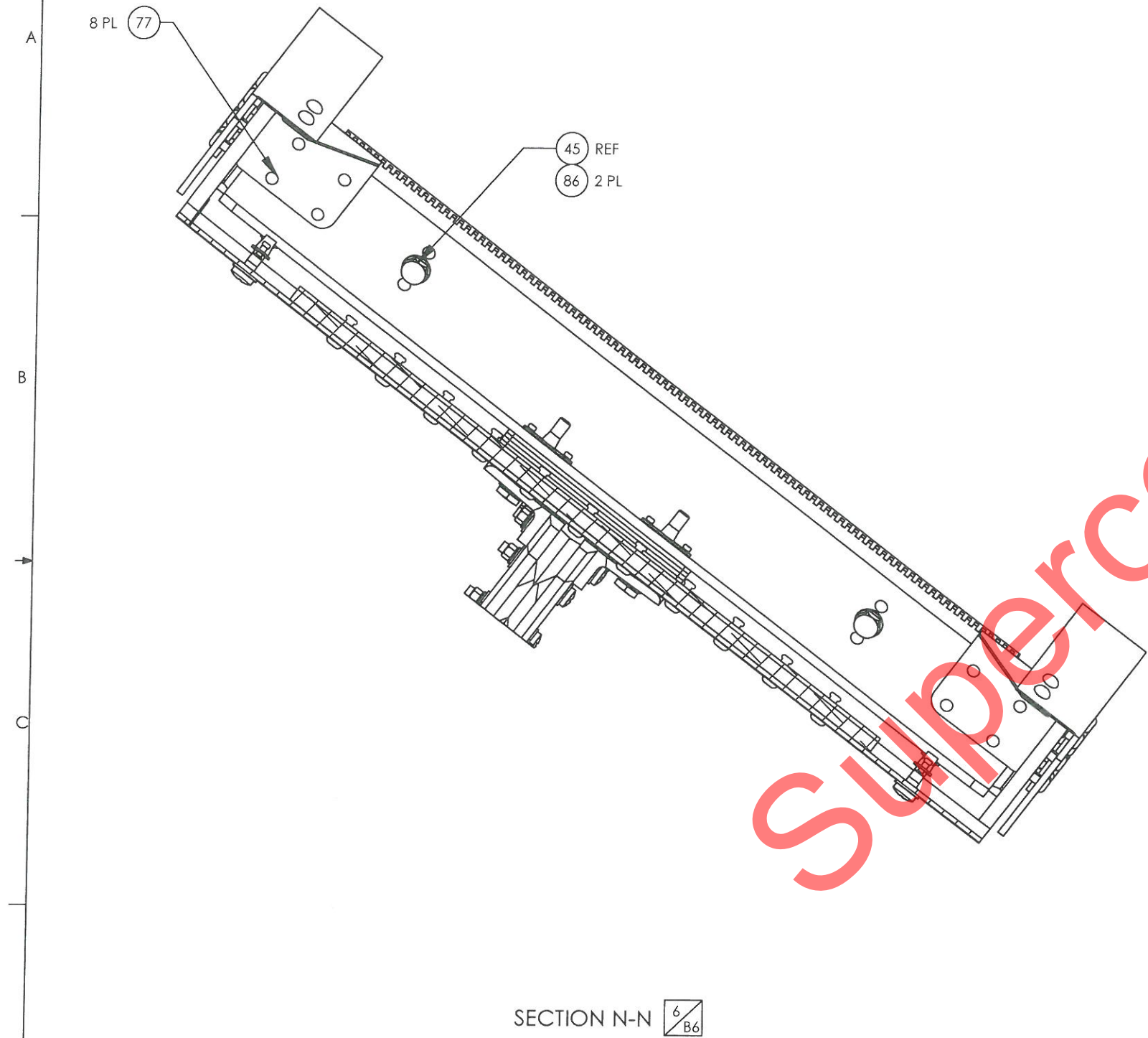
SECTION E-E



SECTION G-G

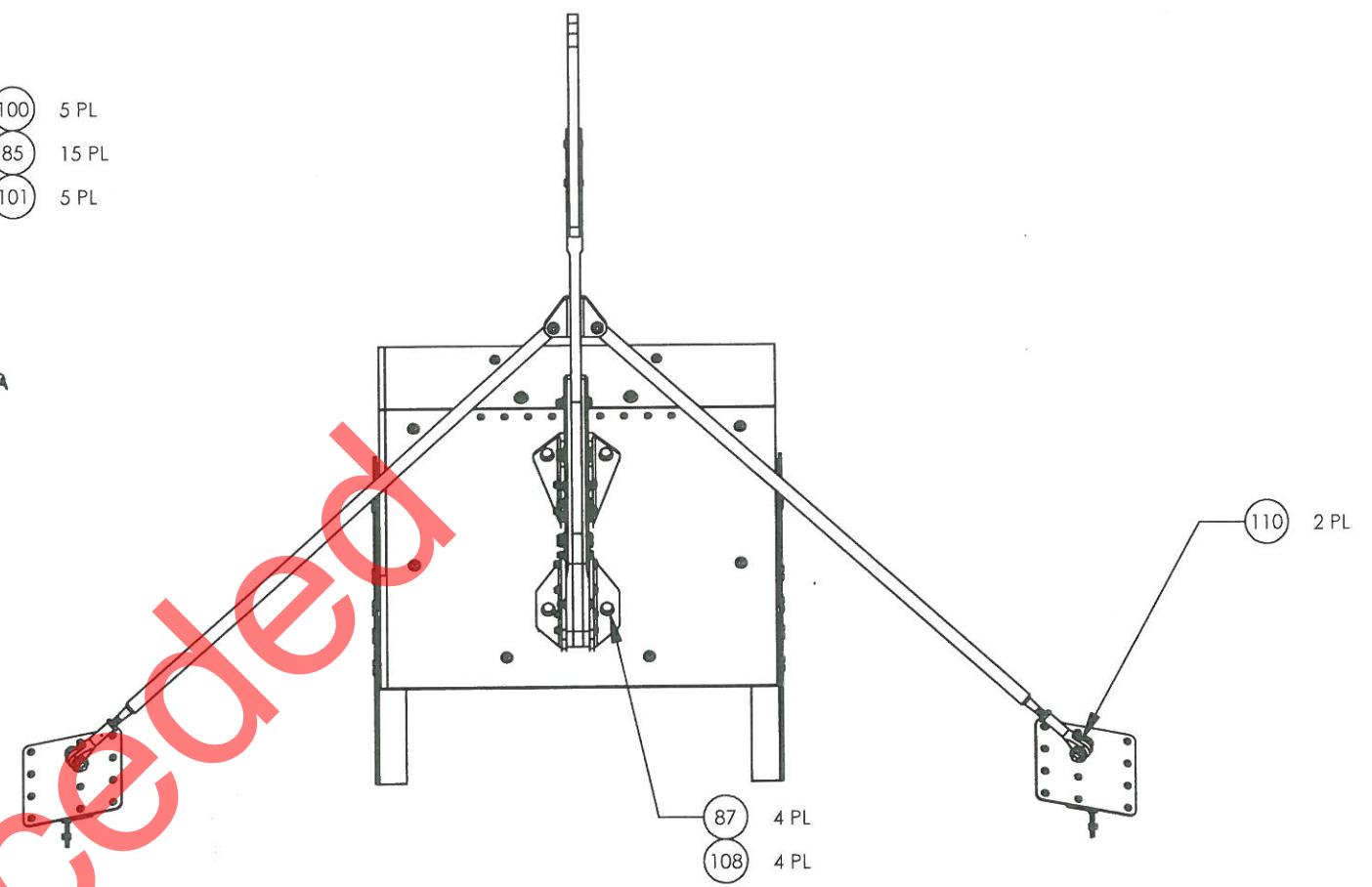
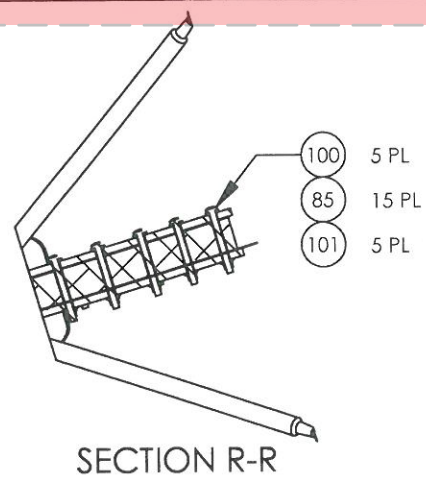
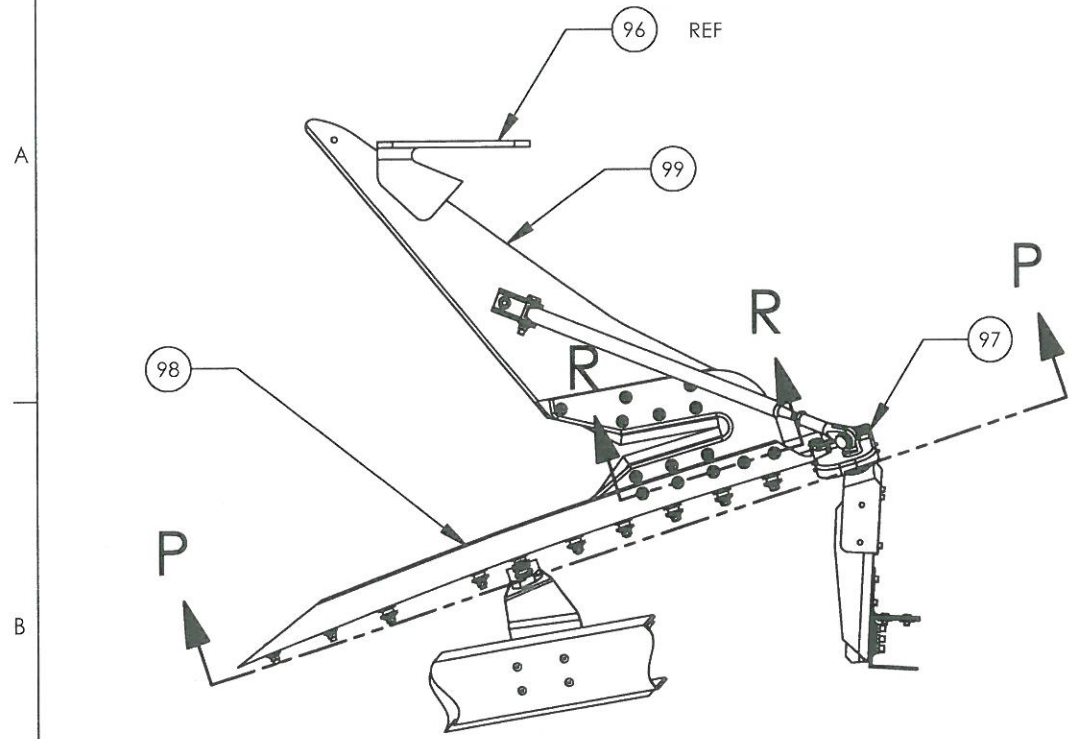
ORIGINAL DATE (MO-DA-YR) 11/24/09		DART 3030 ENTERPRISE CT., SUITE A	
DRAWN BY A. QUAN		VISTA, CA. 92081	
CHECKER D.BARKER		(760)-724-5300	
DRAWING APPROVAL P. BRAVO 01/13/10		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		EC135 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. B
CAGE CODE 07MZ6		DWG. NO. 647.7300	SHEET 6 OF 8
SCALE NONE			

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ORIGINAL DATE (MO-DA-YR) 11/24/09		DART 3030 ENTERPRISE CT., AEROSPACE SUITE A VISTA, CA. 92081 APICAL INDUSTRIES, INC. dba DART AEROSPACE (760)-724-5300	
DRAWN BY A. QUAN		CHECKER D. BARKER	
DRAWING APPROVAL P. BRAVO 01/13/10		CONTRACT No.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		EC135 CABLE CUTTERS KIT	
SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 7 OF 8	

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DETAIL A

- 93 AR
- 92 AR
- 53 5 PL
- 56 5 PL
- 86 5 PL
- 71 5 PL

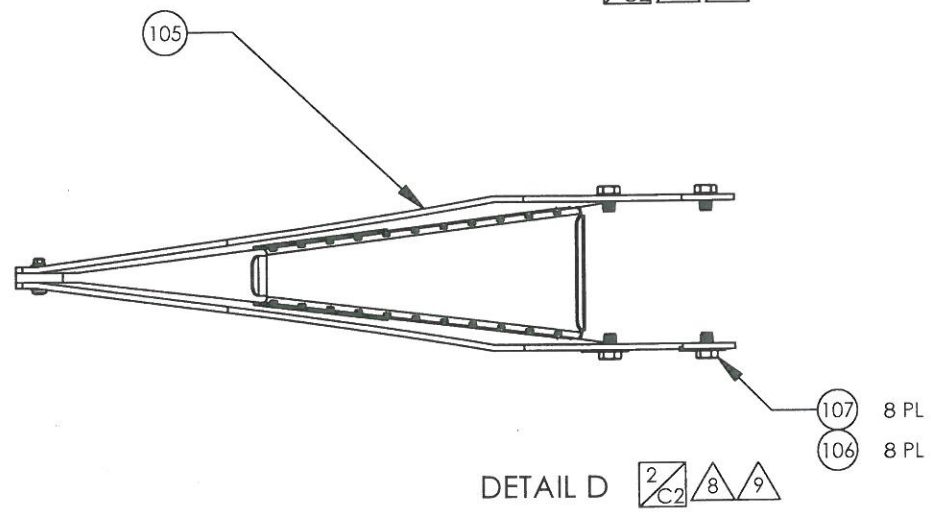
- 2 PL 64
- 2 PL 53
- 4 PL 86

- 2 PL 66
- 4 PL 86
- 2 PL 56
- 2 PL 53
- AR 92
- AR 93

- 56 4 PL
- 86 4 PL
- 53 2 PL
- 109 2 PL
- 92 AR
- 93 AR

SECTION P-P

DETAIL C



ORIGINAL DATE (MO-DA-YR) 11/24/09		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY A. QUAN	CHECKER D. BARKER	DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE			
DRAWING APPROVAL P. BRAVO 01/13/10					
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 8 OF 8			

EC135 CABLE CUTTERS KIT